



# 2017 Tree Mortality Aerial Detection Survey Results

USDA Forest Service, Pacific Southwest Region

California Tree Mortality Summary (all lands)	
Total Acres With Mortality 2017	2.5 million
New Acres Observed in 2017 (not surveyed as damaged in 2010-2016)	1.2 million
Cumulative Acres With Mortality 2010-2017	8.8 million
Total Dead Trees 2010-2017	129 million
Total Dead Trees 2017	27 million
Total Dead Trees 2016	62 million
Percent change from 2016	-56%

Acres of Tree Mortality on National Forests in California's Ten High Priority Counties*		
National Forest	2010-2017	2017
Eldorado	276,000	129,000
LTBMU	40,000	30,000
Sequoia	631,000	185,000
Sierra	760,000	297,000
Stanislaus	432,000	159,000
Tahoe	246,000	95,000
<b>Total</b>	<b>2,385,000</b>	<b>895,000</b>

\*Amador, Calaveras, El Dorado, Fresno, Kern, Madera, Mariposa, Placer, Tulare, Tuolumne

Acres of Tree Mortality California High Priority Counties		
County	Acres 2010-2017	Acres 2017
Amador	88,000	30,000
Calaveras	178,000	63,000
El Dorado	381,000	143,000
Fresno	607,000	216,000
Kern	359,000	31,000
Madera	385,000	134,000
Mariposa	318,000	90,000
Placer	215,000	94,000
Tulare	831,000	283,000
Tuolumne	505,000	175,000
<b>Total</b>	<b>3,867,000</b>	<b>1,259,000</b>

National Forest	Number of Dead Trees on National Forests in California's Ten High Priority Counties*								
	Rounded to the nearest 1,000								
	2010	2011	2012	2013	2014	2015	2016	2017	All Years
Eldorado	78,000	21,000	5,000	7,000	62,000	210,000	1,028,000	1,251,000	2,662,000
LTBMU	15,000	6,000	1,000	1,000	6,000	35,000	72,000	168,000	304,000
Sequoia	191,000	33,000	63,000	89,000	323,000	6,130,000	10,147,000	3,480,000	20,456,000
Sierra	82,000	66,000	72,000	103,000	190,000	5,900,000	18,563,000	6,836,000	31,812,000
Stanislaus	49,000	15,000	55,000	81,000	414,000	1,251,000	4,896,000	2,240,000	9,001,000
Tahoe	165,000	42,000	21,000	9,000	30,000	93,000	358,000	641,000	1,359,000
<b>Total</b>	<b>580,000</b>	<b>183,000</b>	<b>217,000</b>	<b>290,000</b>	<b>1,025,000</b>	<b>13,619,000</b>	<b>35,064,000</b>	<b>14,616,000</b>	<b>65,594,000</b>

\*Amador, Calaveras, El Dorado, Fresno, Kern, Madera, Mariposa, Placer, Tulare, Tuolumne

County	Number of Dead Trees in California High Priority Counties 2010-2017								
	Totals Rounded to the nearest 1,000								
	2010	2011	2012	2013	2014	2015	2016	2017	Cumulative
Amador	7,000	2,000	600	2,000	17,000	79,000	682,000	276,000	1,065,600
Calaveras	8,000	2,000	2,000	4,000	144,000	237,000	1,875,000	1,016,000	3,288,000
El Dorado	53,000	19,000	5,000	11,000	47,000	200,000	1,359,000	1,371,000	3,065,000
Fresno	82,000	59,000	82,000	65,000	269,000	4,300,000	11,912,000	4,385,000	21,154,000
Kern	79,000	18,000	8,000	23,000	176,000	3,300,000	2,994,000	387,000	6,985,000
Madera	15,000	8,000	6,000	31,000	55,000	1,900,000	8,972,000	3,327,000	14,314,000
Mariposa	18,000	10,000	21,000	72,000	68,000	1,200,000	6,562,000	1,497,000	9,448,000
Placer	90,000	16,000	5,000	5,000	21,000	80,000	557,000	709,000	1,483,000
Tulare	234,000	46,000	57,000	67,000	272,000	6,800,000	12,957,000	4,808,000	25,241,000
Tuolumne	39,000	15,000	45,000	83,000	287,000	997,000	6,213,000	2,721,000	10,400,000
<b>Total</b>	<b>625,000</b>	<b>195,000</b>	<b>231,600</b>	<b>363,000</b>	<b>1,356,000</b>	<b>19,093,000</b>	<b>54,083,000</b>	<b>20,497,000</b>	<b>96,443,600</b>